

Serial No.: 09/828,575
Applicant: Schmidt et al.
Filed: April 4, 2001
Docket: 2316.1007USC1

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of the main body 96 is configured for holding or retaining the contact springs 34 and the insulation displacement terminals 82. For example, the first side 98 of the main body 96 includes two combs 102, 104 (shown in Fig. 6) for receiving and separating the contact springs 34. Each of the combs 102, 104 includes a plurality of dividers 103 defining slots sized for receiving the contact springs 34.--

Please replace the paragraph beginning at page 10, line 32, with the following rewritten paragraph:

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--Next, the insert assembly 38 is moved along the trough 76 in a forward direction such that a front end of the insert assembly 38 (e.g. the end at which the contact springs 34 are mounted) moves into the inner chamber 66 of the jack housing 36 through the rear opening 68 of the jack housing 36. As the front end of the insert assembly 38 enters the inner chamber 66, the guide rails 72 of the jack housing 36 are received within the guide slots 116 defined by the connector mount 80. Also, the free end portions 120 of the contact springs 34 are received within the slots defined by the comb 70 located within the inner chamber 66. When the insert assembly 38 has been fully inserted within the inner chamber 66, the locking tabs 112 of the connector mount 80 snap within the latch openings 74 of the jack housing 36. To remove the insert assembly 38 from the jack housing 36, the locking tabs 112 can be depressed thereby allowing the insert assembly 38 to be pulled from the jack housing 36.--

In The Claims

Please cancel claims 1-21, without prejudice.

Please add new claims 22-27 as follows:

33
22. (NEW) An insert for a jack for use with a plug having plug contacts, the insert comprising:

a) a connector mount having a main body including a first side positioned opposite from a second side, the connector mount including:

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i) a snap-fit connection structure positioned at the main body for securing the connector mount to the jack;

ii) a contact spring holder;

iii) an insulation displacement terminal housing positioned at the first side of the main body;

b) a plurality of contact springs held by the contact spring holder, the contact springs including contact portions positioned at the first side of the main body for engaging the plug contacts of the plug, the contact springs each include a tip positioned at the second side of the main body;

c) a plurality of insulation displacement terminals housed by the insulation displacement terminal housing, the insulation displacement terminals each including a tip positioned at the second side of the main body; and

d) a circuit board providing electrical connections between the tips of the insulation displacement terminals and the tips of the contact springs, the circuit board being mounted at the second side of the main body.

2.
23. (NEW) The insert of claim 22, wherein the snap-fit connection structure includes two flexible lever members each having a locking tab, and the contact springs are positioned generally in a region between the flexible lever members.

3.
24. (NEW) A jack for use with a mounting fixture having a jack opening, the jack comprising:

A) an insert assembly having a plurality of flexible contact springs and a plurality of connection locations linked to the contact springs;

B) a jack housing body configured to be mounted within the jack opening of the mounting fixture, the jack housing body including a first retaining structure positioned opposite from a second retaining structure, the first and second retaining structures being positioned to

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engage a front side of the mounting fixture when the jack housing body is mounted in the jack opening;

C) wherein the jack housing body includes a resilient cantilever member having a base end positioned opposite from a free end, the base end being integrally connected with the jack housing body, the cantilever member including a retaining tab positioned near the free end of the cantilever member, the retaining tab being positioned to engage a back side of the mounting fixture when the jack housing body is mounted in the jack opening;

63 D) wherein the jack housing body includes a front portion positioned opposite from a back portion, the front portion defining an inner chamber and also defining front and rear openings for accessing the inner chamber, the front opening comprising a port sized for receiving a plug, and the back portion of the jack housing body defining an open channel that extends in a rearward direction from the front portion, the jack housing body adapted to receive the insert assembly in the open channel, the jack housing body including a base and two opposite facing side walls, the base and the side walls defining at least a portion of the open channel;

E) wherein the insert assembly includes locking tabs, the jack housing body including a hole in each of the side walls to receive one of the locking tabs;

F) wherein the insert assembly includes outwardly facing slots, the jack housing body including guide rails for receipt in the slots of the insert assembly, wherein the rails are offset from the base so that alignment of the insert assembly within the jack housing body is not dependent on a surface of the insert assembly engaging the base.

4.
25. (NEW) The jack of claim ³24, further including a second resilient cantilever member including a retaining tab positioned to engage the back side of the mounting fixture, the second cantilever member positioned on an opposite side of a front of the jack housing body.

5.
26. (NEW) The jack of claim ³24, wherein the resilient cantilever member includes a front retaining tab to engage the front side of the mounting fixture.

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27. (NEW) The jack of claim 25, wherein the second cantilever member includes an open front end not engageable with the front side of the mounting fixture.
